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APPLICATION NO. FILING DATE		ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO		
10/086,811 03/04/2002			Keizoh Kawaguchi	112137	1584		
25944	7590	07/16/2003					
OLIFF & B	BERRIDO	GE, PLC	EXAMINER				
P.O. BOX 19928 ALEXANDRIA, VA 22320				KIM, S	KIM, SUN U		
			•	ART UNIT	PAPER NUMBER		
				1723			
			DATE MAILED: 07/16/2003				

Please find below and/or attached an Office communication concerning this application or proceeding.

				•	A.
		Application	No.	Applicant(s)	X
		10/086,811		KAWAGUCHI, KEI	zон /
Offic	Action Summary	Examiner		Art Unit	
		John Kim		1723	
The MA Period for Reply	ILING DATE of this communication	on appears on the c	over sheet with the c	orrespondence add	lress
THE MAILING - Extensions of time after SIX (6) MON' - If the period for reg - If NO period for reg - Failure to reply wit - Any reply received	D STATUTORY PERIOD FOR F DATE OF THIS COMMUNICAT may be available under the provisions of 37 of THS from the mailing date of this communicat by specified above is less than thirty (30) days ply is specified above, the maximum statutory hin the set or extended period for reply will, by by the Office later than three months after the adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no event ion. s, a reply within the statuto period will apply and will e	however, may a reply be timery minimum of thirty (30) days xpire SIX (6) MONTHS from tion to become ABANDONE	nely filed s will be considered timely the mailing date of this coi	nmunication.
1)⊠ Respon	sive to communication(s) filed o	n <u>04 March 2002</u> .			
2a)☐ This act	ion is FINAL . 2b)∑	This action is no	on-final.		
3)☐ Since th closed i Disposition of Cla	is application is in condition for α n accordance with the practice υ ι ims	allowance except f inder <i>Ex parte Qua</i>	or formal matters, pr y/e, 1935 C.D. 11, 4	osecution as to the 53 O.G. 213.	e merits is
4)⊠ Claim(s)	1-7 is/are pending in the application	ation.			
4a) Of the	e above claim(s) is/are wi	thdrawn from cons	ideration.		•
5) Claim(s)	is/are allowed.			·	
6)⊠ Claim(s)	<u>1-7</u> is/are rejected.				
7) Claim(s)	is/are objected to.			•	
8) Claim(s)	are subject to restriction	and/or election req	uirement.		
Application Paper					
	fication is objected to by the Exa				
	ng(s) filed on <u>04 March 2002</u> is/	•			
	t may not request that any objection				
	sed drawing correction filed on			ved by the Examine	r.
<u> </u>	red, corrected drawings are required	, ,	e action.		
-	or declaration is objected to by the	ne Examiner.	•		
	U.S.C. §§ 119 and 120				
	edgment is made of a claim for for	oreign priority unde	er 35 U.S.C. § 119(a))-(d) or (f).	
	Some * c) None of:				
	rtified copies of the priority docu	,			
	rtified copies of the priority docu				
·	pies of the certified copies of the application from the Internation ached detailed Office action for	al Bureau (PCT R	ule 17.2(a)).		Stage
14) Acknowled	gment is made of a claim for do	mestic priority und	er 35 U.S.C. § 119(e	e) (to a provisional	application)
	ranslation of the foreign languag Igment is made of a claim for do				
Attachment(s)					
3) X Information Disclo	ces Cited (PTO-892) erson's Patent Drawing Review (PTO-94 osure Statement(s) (PTO-1449) Paper N		Notice of Informal P	(PTO-413) Paper No(s Patent Application (PTO	
Patent and Trademark Office O-326 (Rev. 04-01)	Offi	ice Action Summary		Part of Paper No. 4	

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1 and 3 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,200,485 (hereinafter referred to as Kitaevich et al). Kitaevich et al teach a dialyzing apparatus comprising a dialyzer (24) which removes water from blood, blood pressure and heart rate monitors (120, 130) and other blood pressure change related information obtaining device obtaining systematic vascular resistance, cardiac output and hematocrit (110) and a controller (12) for gathering above blood pressure change related information independently or in combination with weight signals from infusate, drained fluid and patient weight and determining drained fluid rate based on above gathered data and changing water removal rate by manual or automatic mode to control flow rate of drain pump (66) i.e. dialyzer control device and display (13) for displaying measured data and computed parameters (see figure 2; col. 2, lines 59-62; col. 2, line 45 col. 4, line 48; col. 5, lines 40-62; col. 7, lines 23-27; col. 7, line 63 col. 9, line 47).
- 3. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 4,718,891 (hereinafter referred to as Lipps). Lipps teaches a dialyzing apparatus comprising a dialyzer (16) which removes water from blood, blood pressure change-related-information obtaining device such as heart rate monitor (12) and blood pressure monitor (14), a control device (10) i.e. water-remove-rate changing means controlling ultrafiltration rate i.e. water

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removal rate when blood pressure or heart rate deviates from the initial readings by more than preselected amounts (see col. 2, lines 28-66; col. 3, line 48 – col. 8, line 12).

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 2 and 4-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kitaevich et al as applied to claim 1 above, and further in view of European Patent Application No. 956815 (hereinafter referred to as EP '815). Kitaevich et al teach a dialyzing apparatus as described in above paragraph 2. Kitaevich et al teach that the monitored patient parameters include cardiac output, systemic vascular resistance and hematocrit (see abstract; col. 3, line 40 col. 4, line 11) wherein a cardiac output reflects a blood flow parameter, systemic vascular resistance reflects a blood vessel parameter and hematocrit reflects a blood viscosity parameter. Claim 2 essentially differs from the apparatus of EP '815 in reciting an autonomic-nerve parameter that reflects an activity of an autonomic nerve of the patient. EP '815 teaches that the blood pressure is estimated by an expression (2) including pulse-wave propagation information and at least one of heart rate information and volume-pulse-wave area information wherein predetermined coefficients are changed by autonomic nerve activity determined by autonomic nerve system activity determining means (84) (see col. 11, line 3 - col. 15, line 2). It would have been obvious to a person of ordinary skill in the art to incorporate autonomic nerve system activity determining means of EP '815 in the apparatus of Kitaevich et al for improving the measurement of blood pressure. Regarding claim 4, EP '815 teaches that volume pulse wave

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such as photoelectric pulse wave is detected by detecting probe (38) (see figure 2; col. 7, line 47 – col. 8, line 54) and circulation information means (72) includes at least one of heart rate information obtaining means (74) and a volume-pulse-wave area information obtaining means (76) (see figure 2; col. 10, line 19 – col. 11, line 2). Regarding claim 5, EP '815 teaches that the autonomic-nerve parameter includes an activity of a sympathetic nerve system based on a low-frequency component and an activity of a parasympathetic nerve system based on a high-frequency component of the fluctuations of the blood pressure (see col. 12, line 56 – col. 15, line 3) and a ratio of amplitude of the high-frequency component to an amplitude of the low frequency component (see col. 19, line 11 – col. 21, line 6). Regarding claim 6, EP '815 teaches a pulse wave propagation information obtaining means (70) which obtains pulse-wave propagation velocity and pulse-wave propagation time (see col. 9, line 43 – col. 10, line 18). Regarding claim 7, Kitaevich et al teach a hematocrit sensor (110) (see figure 2).

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Kim whose telephone number is (703) 308-2350. The examiner can normally be reached on weekdays from 7:00 AM - 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda Walker, can be reached on (703) 308-0457. The fax phone number for official response after final action is (703) 872-9311, and the fax phone number for all other official faxes is (703) 872-9310.

When sending a draft amendment by fax, please mark the paper as "DRAFT"; otherwise, mark the paper "OFFICIAL". This will expedite the processing of the paper.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0651.

John Kim
Primary Examiner
Art Unit 1723

J. Kim July 15, 2003